

Figure 1

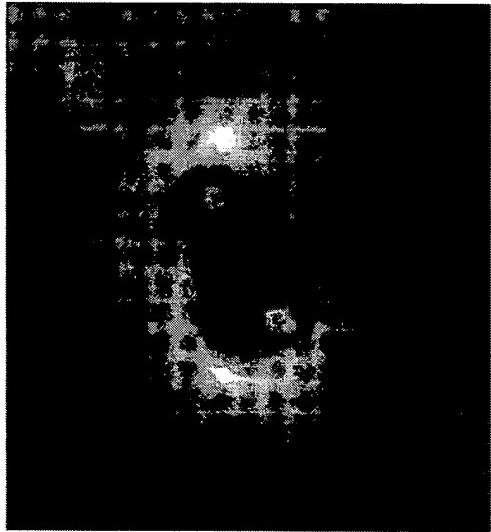


Figure 2

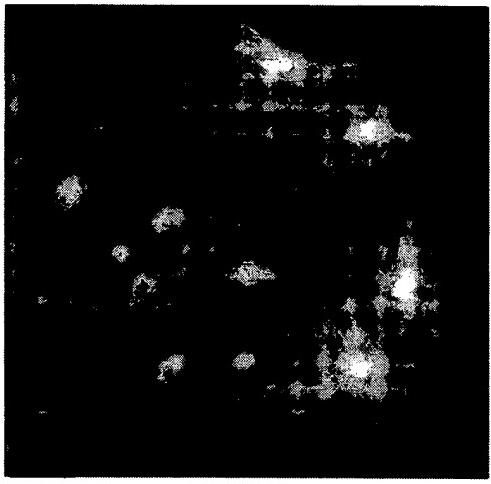


Figure 3

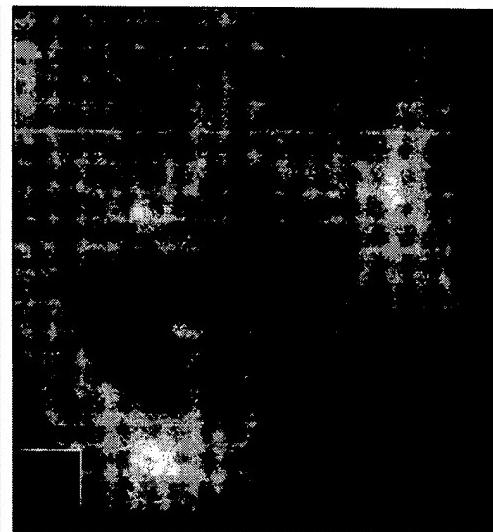
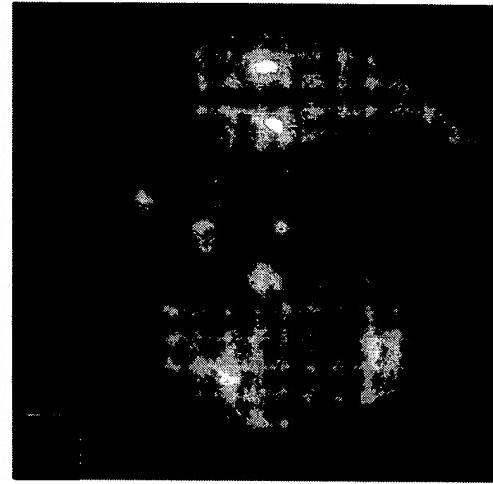


Figure 4



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FIG 5

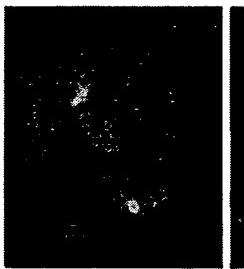


FIG 6

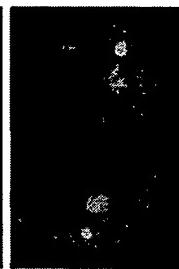


FIG 7



FIG 8

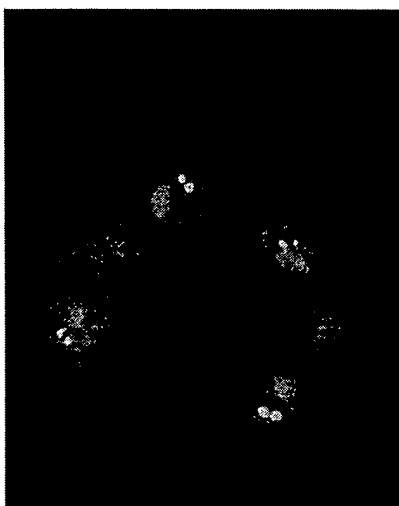


FIG 9



FIG 10

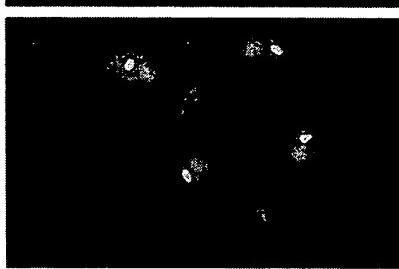
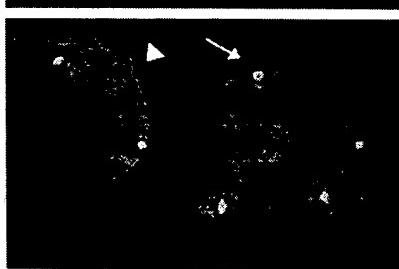


FIG 11



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Figure 12      Figure 13

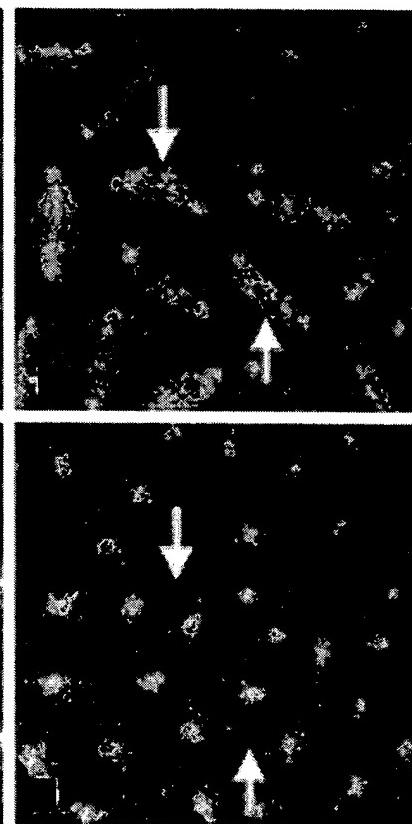
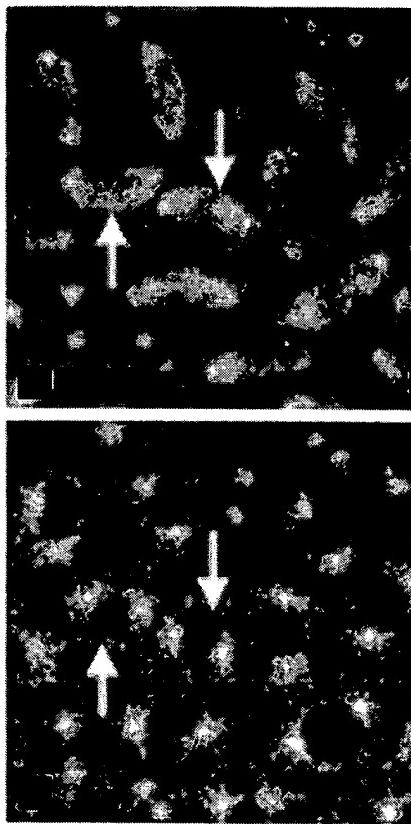
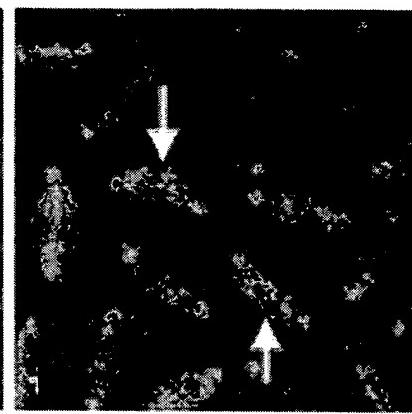
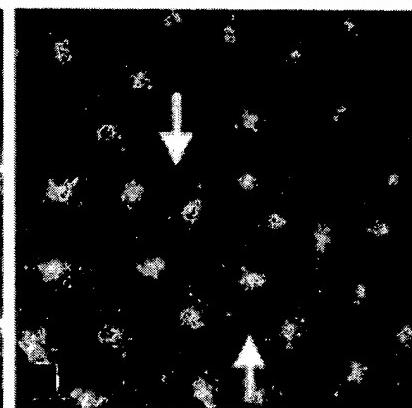


Figure 14      Figure 15



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**Figure 16**

SEQ ID NO:1 KIF18A cDNA  
GenBank Accession No. AL136819

1 atgtctgtca ctgaggaaga cctgtccac catatgaaag tagtagttcg tgtacgtccg  
61 gaaaacacta aagaaaaagc agctggatt cataaagtgg ttcatgttgt ggataaaacat  
121 atcctagtt ttgatcccaa acaagaagaa gtcagtttt tccatggaaa gaaaactaca  
181 aatcaaaatg ttataaagaa acaaataaag gatcttaat ttgtatttga tgctgtttt  
241 gatgaaacgt caactcagtc agaagtttt gaacacacta ctaagccat tcttcgttagt  
301 ttttgaatg gatataattg cacagttactt gcctatggtg ccactgggc tgsgaagacc  
361 cacactatgc taggatcagc tgatgaacct ggagtgtatgt atctaacaat gttacaccc  
421 tacaatgcg tggatgagat taaagaagag aaaatatgta gtactgcagt ttcatatctg  
481 gaggtatata atgaacagat tcgtgatctc tttagtaaattt cagggccact tgctgtccgg  
541 gaagataccc aaaaagggggt ggtcgttcat ggacttactt tacaccagcc caaatcctca  
601 gaagaaattt tacattttt ggataatgga aacaaaaaca ggacacaaca tcccactgt  
661 atgaatgcca catcttctcg ttctcatgtct gtttccaaa ttacttgcg acaacaagac  
721 aaaaacagcaa gatatcaatca aaatgtccgt attgccaaga tgctactcat tgacccgttca  
781 ggtatctgagc gagcaagtac ttccgggtct aaggggaccc gatttgttaga aggacaaat  
841 attaatagat cacttttagc tcttggaaat gtcataatg ctttagcaga ttcaaagaga  
901 aagaatcagc atatccctta cagaatataatg aagcttactc gcttgtaaa ggattctt  
961 ggaggaaact gtcaaactat aatgatagct gctgttagtc ctccctctgt attctacgt  
1021 gacacatata acactctaa gatgctaac cgggcaaaagg acattaaatc ttcttgaag  
1081 agcaatgttc ttaatgtcaa taatcatata actcaatataatg taaagatctg taatgaggcag  
1141 aaggcagaga ttttattgtt aaaagaaaaaa ctaaaagcct atgaagaaca gaaagccct  
1201 actaatgaaa atgaccaagc aaagttaatg attcaaaacc ctcaggaaaa agaaatcgaa  
1261 agtttcaag aaatccctgaa ctgcgttcc cagaatcggag aagaaattag acaagaatataat  
1321 ctgaagtgg aatgttact taaagaaaaat gaacttaatc cattctacca acaacagtgc  
1381 cataaaacaaa tagaaatgat gtgttctgaa gacaaagtag aaaaaggccac tggaaaacgaa  
1441 gatcatagac ttgcaatgtt gaaaactcg tgcgttccacc tggagaaaaag gagggaggag  
1501 gaattgaagc aatttgcgtt gataactaat tggctccatc gtgtcgaaaa agaaatggaa  
1561 ctcttaagtc aaaacggtca tattccaaag gaactcaaga aagatctca ttgtcaccat  
1621 ttgcacccccc agaacaaaga aatttgcgtt gataactaat tggctccatc gtgtcgaaaa  
1681 ctccaggaaac agcaacacag gcagactgaa gcagtttgcgtt tccaaaccct  
1741 agaaaaacaat attgcacattt aaaaaggccac ggcgttccatc gtgtcgaaaa  
1801 ttcaaagaga tcgaacattt ggttagagagg aaaaaggccac ggcgttccatc gtgtcgaaaa  
1861 gccgaaacaac caaagaaaaa cgatctacca gggatttgcgtt tccaaaccct  
1921 ctggaccag tttagccatc ttcttgcgtt tccaaaccct  
1981 attccctacag aaaaaggccac tcggagaaaaa ctaatgcccattt ctcgttccatc gtgtcgaaaa  
2041 actctaaatg ctccaccatc tcaaaggccatc cttttgcgtt tccaaaccct  
2101 cagcctattt tatatacacc agaagactgt aaaaaggccac ggcgttccatc gtgtcgaaaa  
2161 acccttaatgaa aaccatcatc atttactaca agtttgcgtt cttttgcgtt tccaaaccct  
2221 agtgataattt gtcgttccatc tcaaaggccatc cttttgcgtt tccaaaccct  
2281 tggggccatc aaaaaggccac ggcgttccatc gtgtcgaaaa  
2341 tggggccatc aaaaaggccac ggcgttccatc gtgtcgaaaa  
2401 gatcccttccatc tccatcatc taaggccatc tttttgcgtt tccaaaccct

2461 atggcaatga ctactgctgc caaaaaggaaa cgaaaaattaa caagttctac atcaaacagt  
2521 tcgttaactg cagacgtaaa ttctggattt gccaaacgtg ttcgacaaga taattcaagt  
2581 gagaagcact tacaagaaaa caaaccaaca atggaacata aaagaaacat ctgtaaaata  
2641 aatccaagca tggttagaaa atttggaga aatattcaa aaggaaatct aagataa

## Figure 17

SEQ ID NO:2 Amino acid sequence of KIF18A

GenBank Accession No. AL136819

MSVTEEDLCHHMKV VVVRPENTKEKAAGFHKKVVHVDKHLVFDPKQEEVSF  
FHGKKTTNQNVIKKQNKDLKFVDAVFDETSTQSEVFEHTTKPILRSFLNGYNCT  
VLAYGATGAGKTHMLGSADEPGVMYLTMLHLYKCMDEIKEEKICSTAVSYLE  
VYNEQIRDLLVNSGPLAVREDTQKGVVHGLTLHQPKSSEEILHLLDNGNKNRT  
QHPTDMNATSSRSHAVFQIYLRRQQDKTASINQNVRIAKMSLIDLAGSERASTSGA  
KGTRFVEGTNNRSSLALGNVINALADSKRKNQHIPYRNSKLTRLLKDSLGGNCQ  
TIMIAAVSPSSVFYDDTYNTLKYANRAKDIKSSLKSNVNVNNHITQYVKICNEQ  
KAEILLLKEKLKAYEEQKAFTNENDQAKLMISNPQEKEIERFQEILNCLFQNREEI  
RQEYLKLEMLLKENELKSFYQQQCHKQIEMMCSEDKVEKATGKRDHRLAMLKT  
RRSYLEKRREEELKQFDENTNWLHRVEKEMGLLSQNQHIPKELKKDLHCHHLHL  
QNKDLKAQIRHMMMDLACLQEQQHRQTEAVLNALLPTLRKQYCTLKEAGLSNAA  
FESDFKEIEHLVERKVVVWADQTAEQPKQNDLPGISVLMTPQLGPVQPIPCCS  
SSGGTNLVKIPTEKTRRKLMPSPLKGQHTLKSPPSQSVQLNDSLSKELQPIVYTP  
EDCRKAFQNPSTVTLMKPSSFTTSFQAISNINSNDNCLKMLCEVAIPHNRRECGQ  
EDLDSTFTICEDIKSSKCKLPEQESLPNDNKDILQRLDPSSFSTKHSMPVPSMVPSY  
MAMTTAAKRKRKLTSTSNTSNSSLTADVNSGFAKVRQDNSEKHLQENKPTMEH  
KRNICKINPSMVRKFGRNISKGNLR

## Figure 18

SEQ ID NO:3 Amino acid sequence of KLP67A  
GenBank Accession No. NM\_079268

MPSEQHTNIKAVRVRPVNVRELEQKQRSIIKVMDRSALLFDPDEEDDEFFQGA  
KQPYRDIRKRMNKKLTMEFDRVFDIDNSNQDLFEECTAPLVDAVLNGYNCSVFV  
YGATGAGKTFTMLGSEAHPGLYLTMQDLFDKIQAQSDVRKFDVGVSYLEVYN  
EHVMNLLTKSGPLKLREDNNGVVSGLCLTPYSAEELLRMLMLGNSHRTQHPT  
DANAESSRSHAIFQVHIRITERKTDTKRTVKLSMIDLGSERAASTKGIGVRFKEG  
ASINKSLLALGNCINKLADGLKHIPYRDSNLTRILKDSLGGNCRTLMVANVSMSS  
LTYEDTYNTLKYSRAKKIRTTLQCNVLKSKMPTEFYVKKIDEVVAENERLKER  
NKALEAKATQLERAGNSGFDPLELKWTYSKIDAVYAAARQLQEHLGMRSKIK  
NINYRQLTKKELEEFRKLMCVDQRVCQEDFRRFANYMSTLTSQMEKYKEELPS  
WLSKMEIAYQDLESLKREVNKSAYQILIVVKYKDLELQLTKQNIFNNHVNAI  
NQELVENLDLMRKSFRACEVLNQTYDRLEDGQKLTPEIEAVFERLLRKMRFAD  
SEANTKMAEMNPLAVPVALRSSAQEEEPTCSLTASAKKRQRQAAQSDDDLHLS  
MEDFDSQDTESDSEELHRTFKRPRNLNETQVLGPCSSSSSTSSSSARKALTAT  
VTKPRTVQQRLVSDLISDQNVRGGNEKIKKALLKSNHFTAQGLQRTLAAASLAK  
ENVKYNANYVRKSPRALMAKALAGTSTLARKPLGSASKEPPLVKFNRRAASFRLK  
K

## Figure 19

SEQ ID NO:4 cDNA of KLP67A  
GenBank Accession No. NM\_079268

1 atgccttcgg aacagcatac gaatataaaa gtggcggttc gcgtacggcc gtataatgtc  
61 cgtgaattgg agcaaaaaca gcggaggattt atcaagggtca tggatcggtc ggcactgctg  
121 ttcatcccc acgaggagga cgatgagttc ttcttcagg ggcggcaagca accgtaccgc  
181 gacatcacca agcggatgaa caaaaagtgg accatggat tcgacagggtt attcgatata  
241 gacaattcca accaggatct gttcgaggag tgcacggcgc cgctggcga cgccgtgtta  
301 aatggataca actgctcggt atttgtatat ggagccactg ggcgggaaa aacattcaca  
361 atgcggcga gcgaggctca tccgggtctg acctatcta ccatgcaaga tctcttcgat  
421 aagatccaag cgccagcgcg cgtgcgcgaag ttcatgtgg gggtatccta tctagagggtg  
481 tacaacgaac atgtatgaa tctgcataact aaatcgcccctttaaaact tcgcgaggac  
541 aacaatggcg tggtggtcag tggctttgt ctacgcggca tctacagtgc cgaggagctg  
601 ctaagaatgc tgatgtggg caactctcat cgcactcagc accccacaga tgccaatgca  
661 gagagttcca ggtcacatgc catctccag gtgcacattt ggatcacggg ggcggccggcc  
721 gacaccaaaa gaacggtcaa actatccatg atcgatctgg cggcagtga gaggccggcc  
781 agtacgaaag gcattggagt gcgattcaag gaaggccgcgc gcatcaacaa aagtcttta  
841 gctttggaa attgcataaa caagcttagcc gacggcttaa agcacatccc gtaccgcgc  
901 tcgaacctga cacgcattctt gaaggactcg ttggccggaa attgtcgac attgtggtg  
961 gccaatgtct cgatgagctc actgacccat gaagataacct acaacaccct taagtacgct  
1021 agccgagctt agaagatacg cacgactctg aaacagaatg tcctcaagtc caagatgcca  
1081 accgagttct atgtatgaa gatcgacgag gtggtagccg agaacgagcg actcaaagag  
1141 cgcaacaagg cgctggaggc caaggccactt cagttggagc ggcggccaa tagtggattc  
1201 gatccgctgg agcttaagac gtggtagccg aagatagacg ctgtatatgc ggcggccgg  
1261 cagcttcagg agcacgtcct tggatgcgtt agcaagatca agaacatcaa ctaccggcag  
1321 acactgaaaa aagaactgga ggagttcagg aagctgtatgt gtgtcgacca ggcggccgg  
1381 caggaggact tccgtcgctt tgcgaactac atgaggcacac tgaccagcca gatggagaag  
1441 tacaaggagg agttggccctt ctggctgatgaaaatggaga ttgcctacca ggatctgaa  
1501 agtctaaagc gagaggtaa caaatcaaag gcctaccaga tactcattgt atacgttaag  
1561 tacaaggatc tcgagctgca gctgaccaag cagaatatctttaacaatca cgtgaacgca  
1621 attaaccagg agctgggtga gaacttggat ctgatgcgaa agtcctccg aacagcctgc  
1681 gaagtgcata accagacgtt cgcacgcgc gaggatggc aaaagctgac gcccggaaatt  
1741 gaggccgtct tcgaaaggat gctgcaaaatgatcggttccgatccgaa ggcggccatacc  
1801 aaaatggccg agatgaatcc ttggcggttgc cctgtggctc tgcgcaccccg cggccaggag  
1861 gaagaagagc ccacatgcag cctcacggcc agcgccaaaa agcgacaaag gcaagcggt  
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1981 gattccgagg agctgcacag gacgttaag aggccacgaa atctaaacga aacgcggc  
2041 ctgggtccct gcagcacttag ttcttagcagc agtacttcta gcagcacttag cgcaaggaag  
2101 gcactcacgg cgacgggttgcac caagccgcga accgtccaaac agcgactggt cagcgatctg  
2161 atatccgatc agaatgtgcg cgggtggcaat gaaaagatca agaaggctct actcaagtcg  
2221 aatcacttta cggcgcaggactcagaga acgttggccgg ctgcttcctt ggcggaa  
2281 aacgtaaaaat acaacgccaat ctagtgcgc aagagtccac gagcgttaat ggcggcc  
2341 ctgcaggca cctcgacgct tgcgagaaaaa cggctggat cggccaggtaa ggagccgcct  
2401 ttggtaat tcaatctgca tgcctcggtt cgcctgaaga agtag

## Figure 20

KLP61F dsRNA (SEQ ID NO:13)

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gacgggcaca gggaaagaccc acaccatggt gggcaacgag actgccgaac
tgaaatccct ctgggaagat gactctgaca ttggcatcat accgcgcgct ctgagtcacc
tttcgatga gctgcgcgtatg atggagggtgg agtacactat gcgcatttcc tacttggAAC
tgtacaatga ggagctgtgc gatctactgt ccaccgatga caccaccaAG atacgcattt
tcgatgacag caccaAGAAG ggatcgggtga ttatccaggg cctggaggAG ataccagtgc
acagcaAGGA tgatgtgtac aagctgtgg agaAGGGAAA ggagcgTCGc aaaacAGCCA
ctacgctgtat gaatgcacAG tcctcacGCT cccacactgt attttctata gttgtgcaca
tcagggagaa tggcatcgaa ggagaggaca tgctgaaaat cggtAAactg aatctgggtgg
atctggcggg cagtgaaaat gttccaagg ctgggaatga aaaggga
```

## Figure 21

KLP67A dsRNA (SEQ ID NO:14)

```
gtacggc cgtataatgt ccgtgaattg gagcaaaaac agcggagttatcaaggc atggatcggtt cgccactgct gttcgatccc gacgaggagg acgatgagttttctttcag ggcgccaaagc aaccgttaccg cgacatcacc aagcggatga acaaaaaagtttaccatggaa ttgcacaggg tattcgatat agacaattcc aaccaggatc tgttcgagga gtgcacggcg ccgcgttgtcg acgcgggttt aaatggatac aactgctcgg tatttgata tggagccact ggcgccggaa aaacattcac aatgctggc agcgaggctc atccgggtctgaccttatctt accatgcaag atctttcga taagatccaa gcgcagagcg acgtgcgcaa gttcgatgtg ggggtatcct atctagaggt gtacaacgaa catgtgtatga atctgctaactaatcgggc cctttaaaac ttgcgagga caacaatggc gtgggtggtca gtgg
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